



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

FACT SHEET
SOLID WASTE PERMIT NUMBER 4302-CDLF-1998

FACILITY: Dunn-Erwin Construction and Demolition Debris Landfill
COUNTY: Harnett
CITY: Dunn, North Carolina
OWNER/OPERATOR: Harnett County
103 E. Ivey Street
Lillington, North Carolina 27546

DESCRIPTION

Pursuant to North Carolina Solid Waste Management Rule (Rule) 15A NCAC 13B .0547 (4), Harnett County (the County) has applied for a permit to continue operating the existing Dunn-Erwin Construction and Demolition Debris Landfill (C&DLF) unit – Area 1, located on top of the closed unlined Municipal Solid Waste Landfill (MSWLF) unit - Phase III and implemented a groundwater corrective action plan. To extend the life expectancy of the Dunn-Erwin C&DLF unit – Area 1, the County has also requested an approval of increasing the landfill total gross capacity to 785,011 cubic yards (CY) according to the North Carolina General Statutes 130A-294(b1) and Rule 15A NCAC 13B .0535(c). The County owns and operates Dunn-Erwin Landfill Facility which is located at 449 Daniels Road, near Dunn. The landfill facility encompasses a 324.87-acre land and consists of the Dunn-Erwin C&DLF unit – Area 1, several closed landfill units including MSWLF unit - Phases I, II & III, and other solid waste management facilities (SWMFs)

The closed unlined MSWLF unit - Phase III that encompassed the waste footprint of approximately 20.7 acres received municipal solid wastes from 1990 to 1997 and certified for closure on December 31, 1998. The estimated in-place waste volume of the MSWLF unit – Phase III is approximately 1,071,000 CY. Following the closure, the top portion of the closed MSWLF unit – Phase III was approved to construct the C&DLF unit – Area 1 and began receiving C&D wastes for disposal on February 03, 1998. This C&DLF unit – Area 1 encompassing approximately 16.8-acre waste footprint has a gross capacity of 685,500 CY and an annual disposal rate up to 35,000 tons. The C&DLF unit currently serves Harnett County. As of July 16, 2013 the C&DLF unit – Area 1 has the in-place waste volume of approximately 571,963 CY or 256,683 tons.

The County proposes constructing a vertical expansion at the southern end of the existing waste footprint of the C&DLF unit – Area 1, which results in:

1. Increasing total gross capacity to 785,011 CY and having a final fill elevation up to 318 feet above mean sea level with a 4 (horizontal) to 1 (vertical) and/or 3 (horizontal) to 1 (vertical) side slopes.

2. Extending the life expectancy of the landfill to approximately 5 year which is based on average disposal rate of 15,000 tons per year – average 52 tons per day based on 280 operating days per year. If waste receipts are less, the landfill service life could last longer.

No changes are proposed at this time to increase the annual waste acceptance rate (tons per year) or service area.

This C&DLF unit – Area 1 is permitted to dispose of land clearing/inert debris and construction/demolition debris resulting solely from construction, remodeling, repair, or the demolition of pavement, buildings, or other structures. Hazardous wastes or other banned wastes such as municipal or industrial solid wastes, liquid waste, medical waste, radioactive waste, PCB wastes, yard trash, white goods, septage, sludge, and special wastes are not approved for disposal.

A corrective action plan to address groundwater contamination associated with the closed unlined MSWLF unit – Phase III was prepared in accordance with the Rules 15A NCAC 13B .1635 through .1637. An assessment of corrective measures for groundwater treatment was presented at a public meeting held on March 31, 2008. The selected remedies for implementation to correct the groundwater issues includes Phytoremediation coupling with monitoring natural attenuation (MNA), extraction and removal of impacted groundwater from interception trenches, the existing institutional controls, and capping for the source control. The first phase of Phytoremediation / MNA has been implemented in 2009, and the effectiveness of the remediation of impacted groundwater has been reported in 2013. The installation of the second phase Phytoremediation and the groundwater recovery trenches was approved to be postponed pending the final results of groundwater quality evaluation. The draft permit contains conditions for the implementation, operation, and assessment of the action plan.

The Division of Waste Management (Division) has determined that the proposed facility plan, operations plan, closure and post-closure plan, construction quality assurance plan, water quality monitoring plan, corrective action plan and amendments, and the documentation of public meetings and local government approval satisfied the requirements of the Solid Waste Management Rules as codified in 15A NCAC 13B .0531, et seq. and 15A NCAC 13B .1630 through .1637. The Division has prepared Draft Solid Waste Permit 4302-CDLF-1998 allowing the continued operating the existing Dunn-Erwin C&DLF unit on top of the closed MSWLF - Phase III. This draft permit is now available for public review and comment.

PERMIT STRUCTURE

The permit is divided into two parts, the Permit to Construct and the Permit to Operate. For Dunn-Erwin C&DLF – Area 1 the Permit To Construct approves the described landfill vertical expansion, and the Permit to Operate is issued for 5-year operation of the landfill units and other SWMFs. The permit includes a list of approved documents and specific conditions for the construction and operations of landfill unit and other specific waste management areas, implementation of the groundwater Corrective Action Plan and amendments, and closure and post-closure cares including the C&DLF –Area 1 and the closed landfill units.

PUBLIC COMMENT PERIOD

North Carolina Solid Waste Management Rules require that the public be given an opportunity to comment on a draft permit for a municipal solid waste management facility. This 45-day comment period begins on April 04, 2015, and ends on May 18, 2015. The draft permit is available for review by appointment from 9 AM to 4 PM, Monday-Friday, at the Division of Waste Management, at the building address shown below or on line at "Public Notice" tab of the Solid Waste Section web site at <http://portal.ncdenr.org/web/wm/sw>. All data submitted by the applicant is available as part of the administrative record. Persons who wish to comment on the proposed permit conditions or to object to the permit issuance should submit their comments in writing by May 18, 2015, at 5:00 PM. Comments should be sent to the mailing address shown below and include the permit number. All comments received within the 45-day period will be considered in making the final determinations regarding the permit. A final permit decision and response to comments will be prepared soon after the conclusion of the comment period.

PUBLIC HEARING

Public meetings have been previously conducted by the County in accordance with Rules to address the construction of planned vertical expansion and the continued operation of Dunn-Erwin C&DLF unit – Area 1 and the Corrective Action Plan for the MSWLF unit – Phase III. The Division believes the pertinent issues involved in the permit decision were addressed in these meetings and does not plan to conduct a public hearing. A request for a public hearing may be made during the public comment period by submitting a written request stating the nature of the issues proposed to be raised in the hearing. Requests must be received by 5:00 pm, May 18, 2015. The Division may hold a public hearing if there is a significant degree of public interest.

NOTIFICATION

Persons interested in receiving notification of the final permit decision should make their request known in writing to the division contact listed below.

DIVISION CONTACT

North Carolina Division of Waste Management
Solid Waste Section
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